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A battery pack includes a plurality of cells (2) stacked on top of one another in tiers; a heat collecting plate (4, 7) made of a wave-like metal sheet and interposed between tiers of the cells so as to make contact with outer peripheral surfaces of upper and lower tiers of the cells alternately; a heat pipe (10) having its heating portion (10a) fitted into a fitting groove (8, 9) formed in the heat collecting plate; a pack case (1) for accommodating the cells, the heat collecting plate, and the heat pipe; and a heat dissipating member (3) attached to the pack case so as to close an opening of the pack case and having on its inner-surface side a concavely-formed receiving groove (11) into which a heat dissipating portion (10b) of the heat pipe is fitted.